900MHzSPREADSPECTRUM

For XR20 Command Processor™ Panels

Description

Digital Monitoring Products dealers can now incorporate 900MHz spread spectrum wireless devices into their Command Processor™ systems using the new 872 HARD-WIRE-LESS™ Interface Card from DMP. The 872 supports the FA series of 900MHz wireless receivers and transmitters from Inovonics and also provides an LX-Bus™ for connecting DMP hardwired zone expanders, output expanders, 6155LX and DS775LX PIRs, and 5845LX Glassbreak Detectors.

872 HARD-WIRE-LESS™ Interface Card

The 872 card allows you to add 100 expansion zones for either all hardwire, all wireless, or any combination of both types of devices. Hardwire devices connect to the card's 4-wire LX-Bus™.
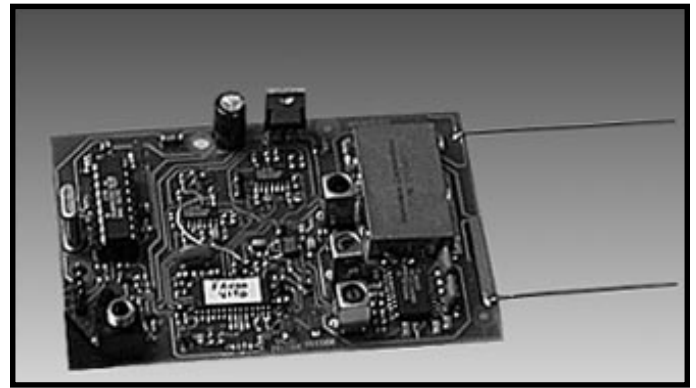
Wireless Receivers

Wireless systems require an Inovonics wireless receiver that connects to the 872 through a single 3-wire harness provided with the card. The 872 is suitable for use with the FA400 Remote Receiver and FA525 Real-Time Repeater. Both models offer outstanding signal reception and noise discrimination features to protect against environmental obstacles and missing transmitters.

Choice of wireless detectors

Dealers can choose from a variety of transmitter types to meet the requirements of their wireless installations. A diagram is included on the back of this sheet. The list of wireless products available include a standard transmitter for connecting remote contacts and a wide gap transmitter with an internal reed switch alarm contact. This transmitter can also be used with remote contacts attached to the building's doors or windows. Wireless smoke and glassbreak detectors and PIRs are available as well as a signal repeater to extend the distance at which transmitters can be located and a pendant transmitter end users can carry to signal for emergency assistance.

Simplified programming

Whether installing wireless with the initial installation or adding it later, the simple programming steps required can be found in the Zone Information section of the panel's internal programmer. This section allows you to enter individual characteristics for each transmitter to define the panel's response to its activity.
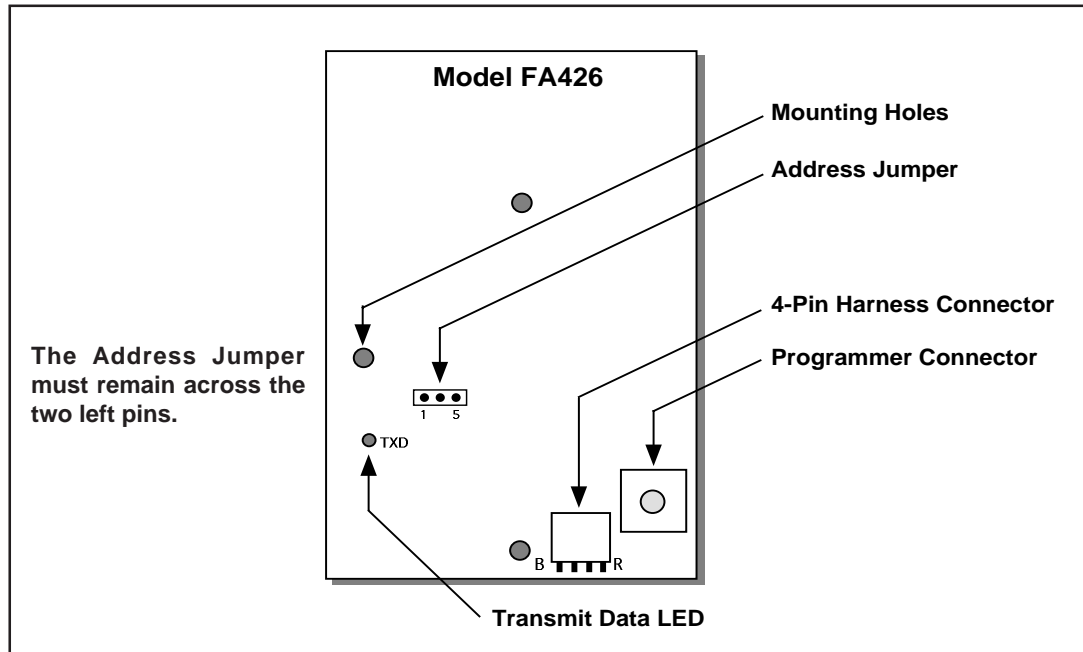
Features

- Compatible with Inovonics FA series 900MHz wireless transmitters
- Combine hardwire and wireless points on one system
- Works with the DMP 872 HARD-WIRE-LESS™ Card
- Allows expansion up to 100 wireless points
- Can be used with repeaters for better signal reception
- Simple loop programming from panel
- Setup program allows easy identification of overlapped loop addresses
- Advanced 900MHz radio technology
- Wide choice of wireless protection devices:
    * Standard transmitter
    * Wide gap transmitter
    * Smoke detector
    * Sentrol® glassbreak detector
    * Sentrol® passive infrared detector
    * Emergency pendant
    * Hand-held remote control unit
    * Wireless repeater
- Multi-frequency 900MHz transmissions
- Quick and easy installations
- Variable 10, 30, or 60 second check-in times

Description

The FA426 Wireless Receiver allows you to add up to 16 Inovonics FA series transmitters to the keypad data bus of an XR20 Command Processor™ panel. The FA426 mounts in the panel enclosure and connects to the keypad data bus terminals using a Model 300 Wire Harness supplied with the module.

An Inovonics FA116 Programmer is used to program the wireless points. The FA116 must contain firmware version 1.50 or higher to operate properly with the FA426 Receiver. If you have an earlier version firmware, please contact Inovonics Technical Support at (800) 782-2709 for assistance in upgrading. FA116 Programmers purchased after August 1, 1996 will contain version 1.50 or higher.

Figure 1: FA426 hardware descriptions.

Installing the FA426 receiver

1. Touch the side of the enclosure with your hand to discharge any static electricity in your body before picking up the FA426 module.
2. Pick up the module and slowly guide the two antennae through the openings in the top of the enclosure.
3. Gently press the three plastic standoffs of the FA426 into the three mounting holes in the right side of the enclosure.

Connecting the receiver

The Inovonics FA426 receiver contains a 4-pin connector to which the 4-wire harness is attached. The leads from the harness connect to the panel's keypad data bus on terminals 7, 8, 9, and 10. The list below describes the harness wiring connections.

FA426 Harness		Keypad Bus Terminals
Red	connects to	Terminal 7
Yellow	connects to	Terminal 8
Green	connects to	Terminal 9
Black	connects to	Terminal 10

FA426 activates keypad address five

When a programmed FA426 is connected to the XR20, the panel begins polling address five, which is an unsupervised address. This polling allows you to have multiple keypads on address five.

Programming points with the FA116 Executive Programmer

The following steps walk you through the wireless programming. Make sure the FA426 Receiver is installed and connected to the panel's keypad data bus.
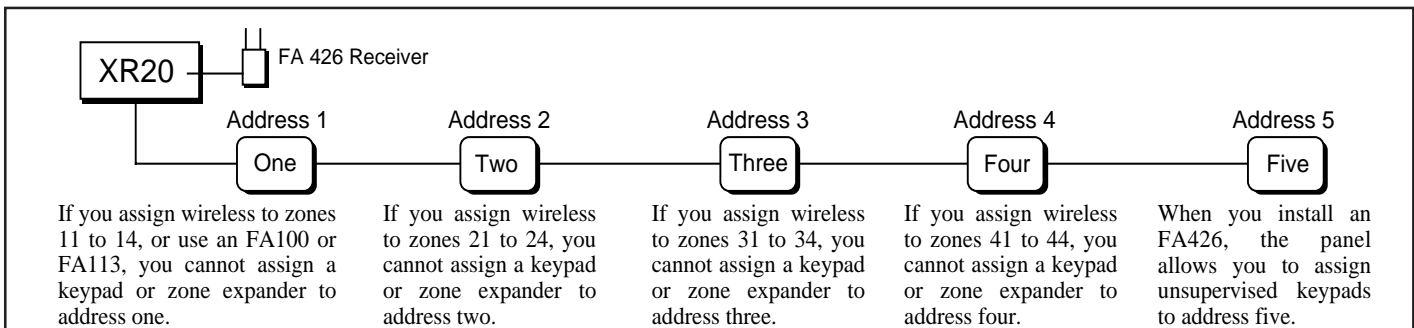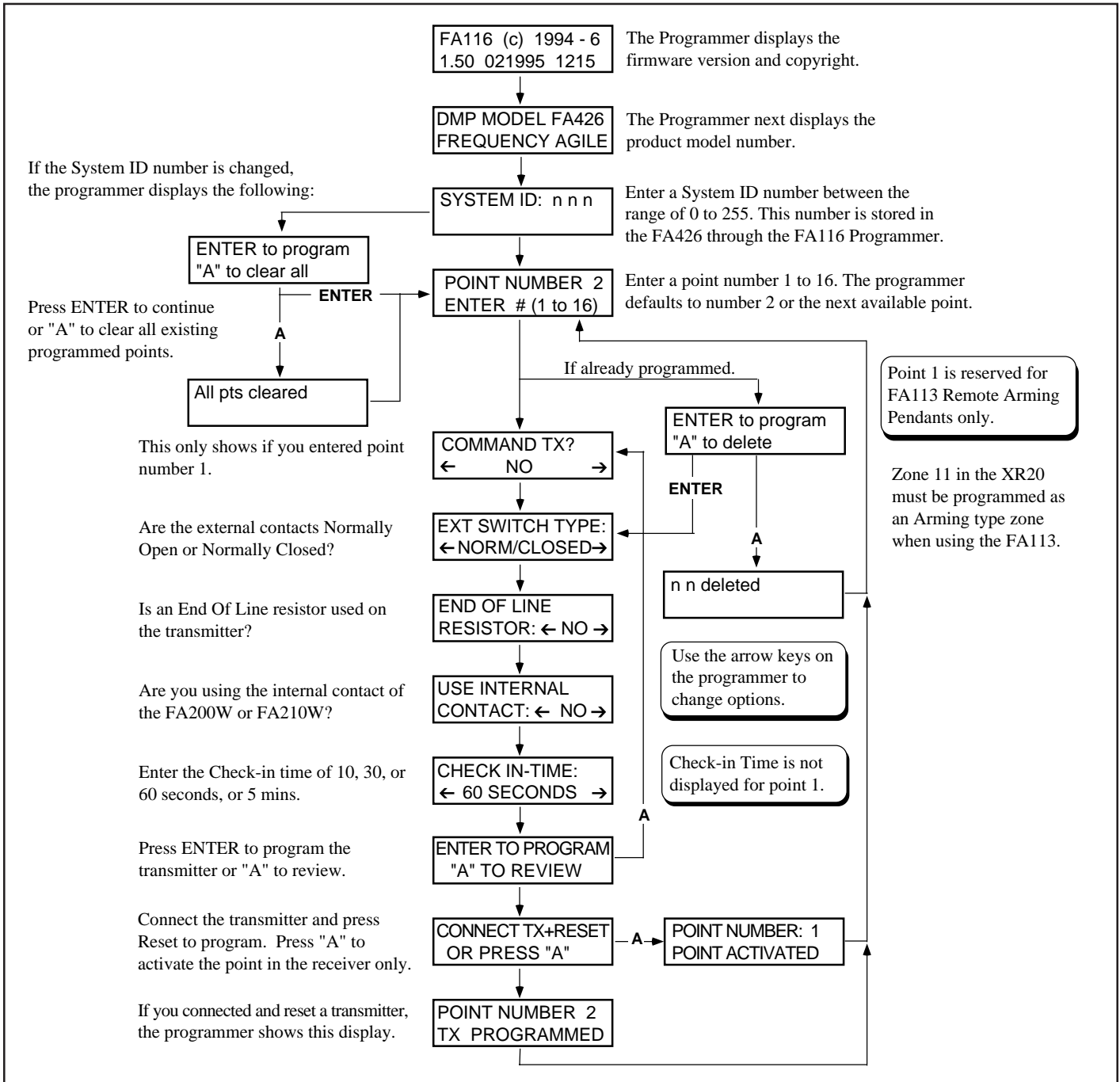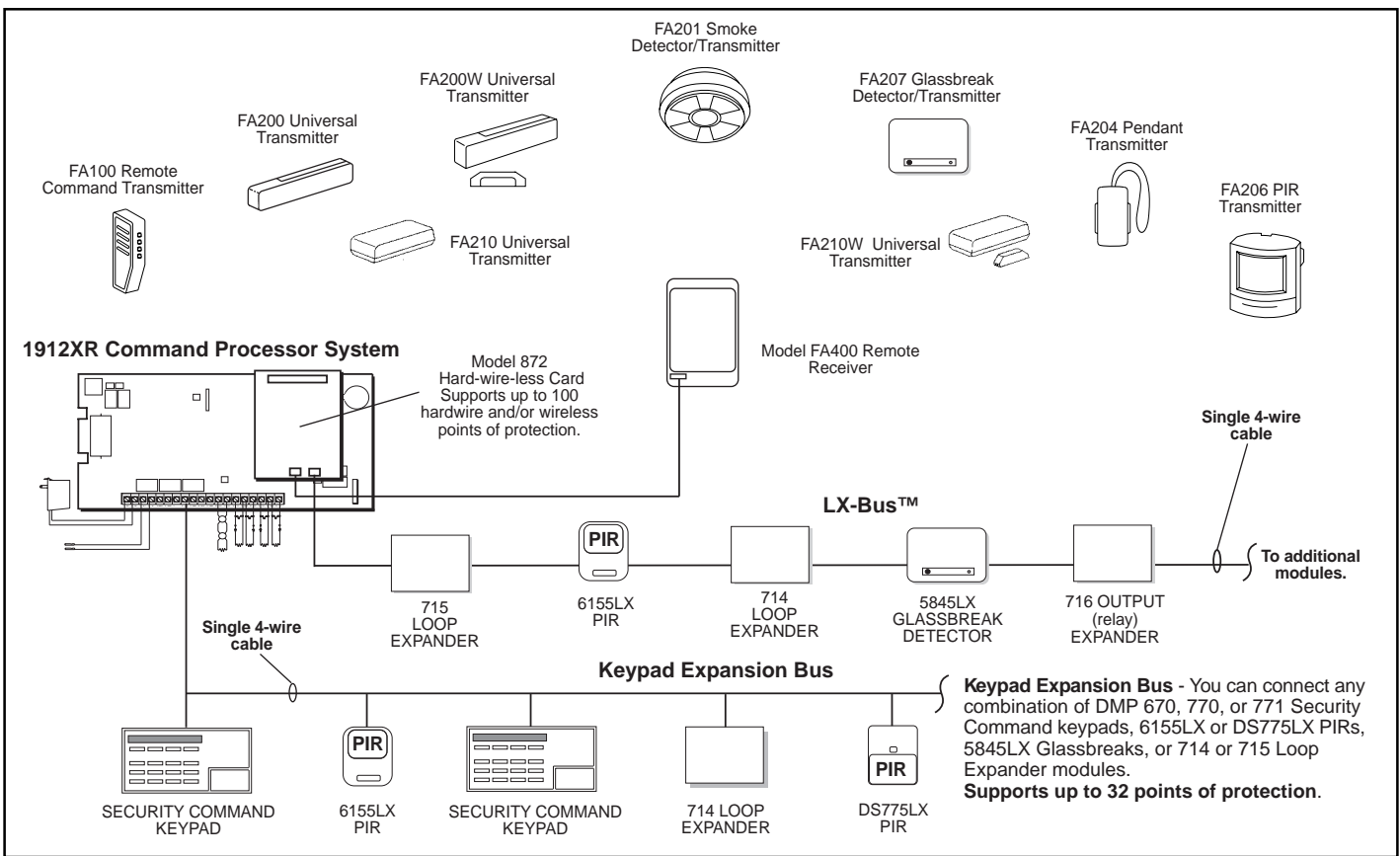
| FA116 (c) 1994 - 6
1.50 021995 1215 | The Programmer displays the firmware version and copyright. |

| DMP MODEL FA426
FREQUENCY AGILE | The Programmer next displays the product model number. |

If the System ID number is changed, the programmer displays the following:

| SYSTEM ID: n n n | Enter a System ID number between the range of 0 to 255. This number is stored in the FA426 through the FA116 Programmer. |

| ENTER to program
"A" to clear all |

Press ENTER to continue or "A" to clear all existing programmed points.

ENTER

A

| POINT NUMBER 2
ENTER # (1 to 16) | Enter a point number 1 to 16. The programmer defaults to number 2 or the next available point. |

| All pts cleared |

If already programmed.

Point 1 is reserved for FA113 Remote Arming Pendants only.

| ENTER to program
"A" to delete |

This only shows if you entered point number 1.

| COMMAND TX?
← NO → |

Zone 11 in the XR20 must be programmed as an Arming type zone when using the FA113.

ENTER

Are the external contacts Normally Open or Normally Closed?

| EXT SWITCH TYPE:
←NORM/CLOSED→ |

A

| n n deleted |

Is an End Of Line resistor used on the transmitter?

| END OF LINE
RESISTOR: ← NO → |

Use the arrow keys on the programmer to change options.

Are you using the internal contact of the FA200W or FA210W?

| USE INTERNAL
CONTACT: ← NO → |

Check-in Time is not displayed for point 1.

Enter the Check-in time of 10, 30, or 60 seconds, or 5 mins.

| CHECK IN-TIME:
← 60 SECONDS → |

Press ENTER to program the transmitter or "A" to review.

| ENTER TO PROGRAM
"A" TO REVIEW |

A

Connect the transmitter and press Reset to program. Press "A" to activate the point in the receiver only.

| CONNECT TX+RESET
OR PRESS "A" | **A** | POINT NUMBER: 1
POINT ACTIVATED |

If you connected and reset a transmitter, the programmer shows this display.

| POINT NUMBER 2
TX PROGRAMMED |

XR20 — FA 426 Receiver

Address 1	Address 2	Address 3	Address 4	Address 5
One	Two	Three	Four	Five
If you assign wireless to zones 11 to 14, or use an FA100 or FA113, you cannot assign a keypad or zone expander to address one.	If you assign wireless to zones 21 to 24, you cannot assign a keypad or zone expander to address two.	If you assign wireless to zones 31 to 34, you cannot assign a keypad or zone expander to address three.	If you assign wireless to zones 41 to 44, you cannot assign a keypad or zone expander to address four.	When you install an FA426, the panel allows you to assign unsupervised keypads to address five.

Figure 2: Wireless zone assignments.

Digital Monitoring Products

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Combined hardwire and wireless system

Transcriptter specifications

FA100 Command Transmitter
Four button remote control for arming, disarming, and panic. The remote control is not supervised.
Color: Dark Charcoal

FA200 Universal Transmitter
Connects to any Normally Open or Normally Closed switches, contacts, or sensors. Tamper protected, provides low battery warning and supports EOL resistor.
Color: Ivory or Brown

FA200W Universal Wide Gap Transmitter
Contains internal reed switch or can connect to any Normally Open or Normally Closed switches, contacts, or sensors. Tamper protected, provides low battery warning and supports EOL resistor. Wide gap magnet provided.
Color: Ivory or Brown

FA201 Smoke Detector/Transmitter
Photoelectric detector with built-in transmitter. Provides local and transmitted low battery warning.
Color: Ivory

FA204 Pendant Transmitter
Two button activation signals emergency situation. Includes necklace cord. Optional belt holster.
Color: Ivory

FA206 Sharpshooter™ PIR Transmitter
Standard $90°$ field of view by 45 ft. radius with pulse count verification. Includes mounting hardware for wall or corner.
Color: Ivory

FA207 Glassbreak Detector Transmitter
Detects acoustic pattern of breaking glass, even through blinds and drapes, in up to 20 ft. radius.
Color: White

FA210 Universal Transmitter
Sized reduced. Connects to any Normally Open or Normally Closed switches, contacts, or sensors. Tamper protected, provides low battery warning and supports EOL resistor.
Color: Ivory or Brown

FA210W Universal Wide Gap Transmitter
Contains internal reed switch or can connect to any Normally Open or Normally Closed switches, contacts, or sensors. Tamper protected, provides low battery warning and supports EOL resistor. Wide gap magnet provided.
Color: Ivory or Brown

FA400 Remote Receiver
Connects with 3-wire harness to DMP 872 interface card. Allows you to supervise up to 100 wireless transmitters.

FA525 Real-Time Repeater
Effectively doubles the range and increases the reliability of wireless transmitters. Weatherproof housing can accommodate 1.2 Ah battery. One 14 VAC transformer included.